





Reporting Wastewater Funding Needs for Federal and State Assistance

Clean Water Financing and Assistance Program
Virginia Department of Environmental Quality
March 9, 2022

Reporting Wastewater Funding Needs for State and Federal Assistance

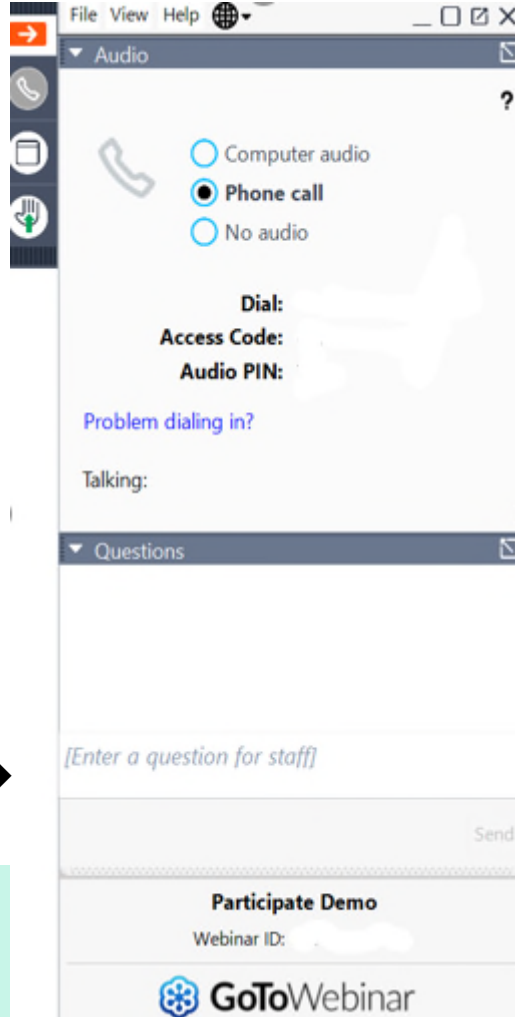
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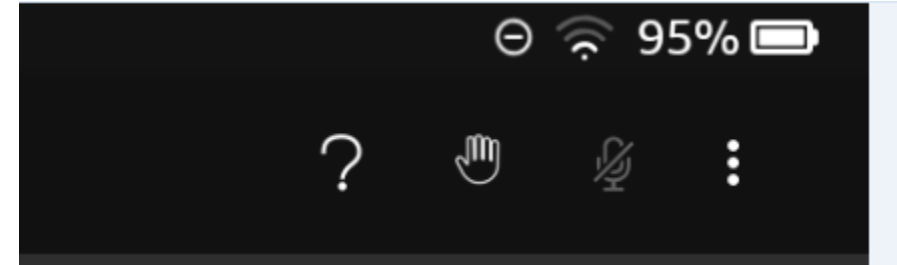
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For webinar technical assistance
contact: Kevin Vaughan
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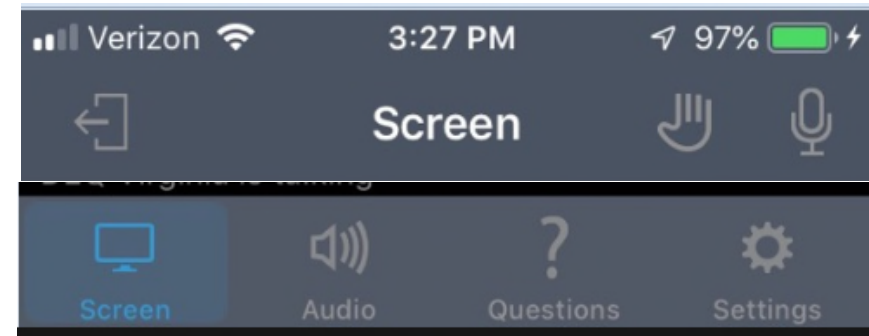
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Introduction – Who are we?

- DEQ's Clean Water Financing and Assistance Program
 - Provide funding and assistance for water quality projects across the Commonwealth
 - Receive funding – EPA grants and state funds
 - Provide funding – loans and grants to localities and other entities
 - Water quality projects – wastewater AND non point source projects (septic, stormwater, agricultural BMPs, living shorelines, land conservation, brownfields remediation)
- Our team for today's presentation
 - Karen Doran, Program Manager
 - Matthew Link, Project Oversight Team Lead
 - Lauren Linville, Project Officer

Presentation Overview

- Purpose
 - What are we doing here today?
 - Why does this matter to you?
- Background and History
 - Why are we doing this and how did we get here?
- Prioritization
 - What is our focus?
- Roles and Timelines
 - What do we need from you and when?
- Eligibility and Documentation Parameters
 - What is considered a need and how do we document it?
- Next Steps and Q&A

Purpose – What are we doing here today?

- Talking with you about how, together, we can
 - Receive MORE funding – EPA grants and state funds
 - Provide MORE funding – loans and grants to localities and other entities

For your:

- Water quality projects – wastewater AND non point source (NPS) projects (septic, stormwater, agricultural BMPs, living shorelines, land conservation, brownfields remediation)

Poll Question

- Does your locality have enough funding for your current and future wastewater AND non point source water quality needs?

Purpose – Why does this matter to you?

- If you answered yes – congratulations!
- If you answered no – we can work together to:
 - Gather water quality needs information
 - Provide information to EPA and the state
 - **Receive more funding for water quality needs**

Background and History – Why are we doing this and how did we get here?

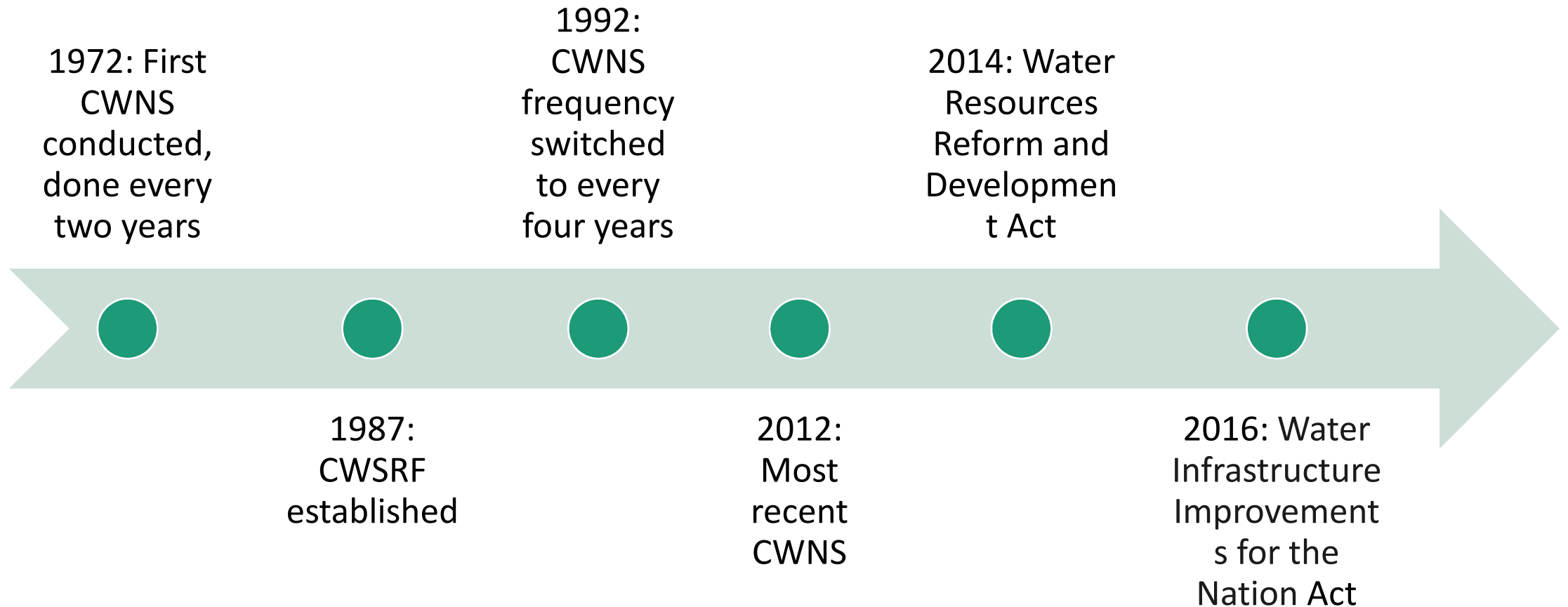
- DEQ is tasked with collecting and reporting information on wastewater AND non point source water quality needs
 - Federal – EPA Clean Watersheds Needs Survey (CWNS)
 - due Feb 2023
 - State – Commonwealth Wastewater Needs Assessment (CWNA)
 - due July 2023
- Information will be used to determine funding amount provided to Virginia for water quality projects
 - More need = more funding

Federal – EPA Clean Watersheds Needs Survey (CWNS)



- Congressional mandate requires EPA to:
 - conduct detailed assessment of Nation's water infrastructure needs by state;
 - determine population served by treatment type (wastewater);
 - and report findings to Congress

Background and History – Why are we doing this and how did we get here?



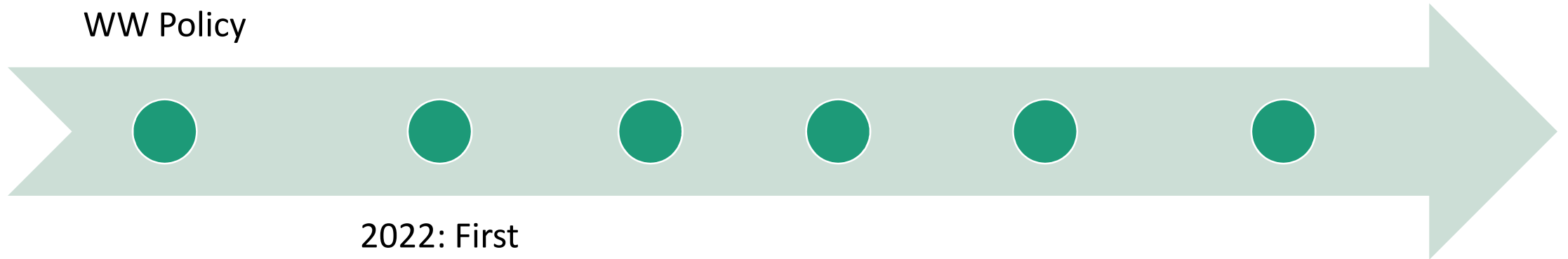
State – Commonwealth Wastewater Needs Assessment (CWNA)



- VA Code § 62.1-223.3 requires DEQ to:
 - Determine every four years an estimate of the amount of wastewater infrastructure funding that is
 - Necessary to implement the policy of the Commonwealth articulated in § 62.1-223.1, and
 - Not eligible to be covered by grant funding pursuant to the Virginia Water Quality Improvement Act of 1997
 - Report such estimate to the Governor and General Assembly no later than July 1, 2023
 - **To prioritize universal access to wastewater treatment that protects public health and the environment and supports local economic growth and stability.**

Background and History – Why are we doing this and how did we get here?

2021: GA
promulgates
Commonwealth
WW Policy



2022: First
CWNA
conducted,
done every
four years

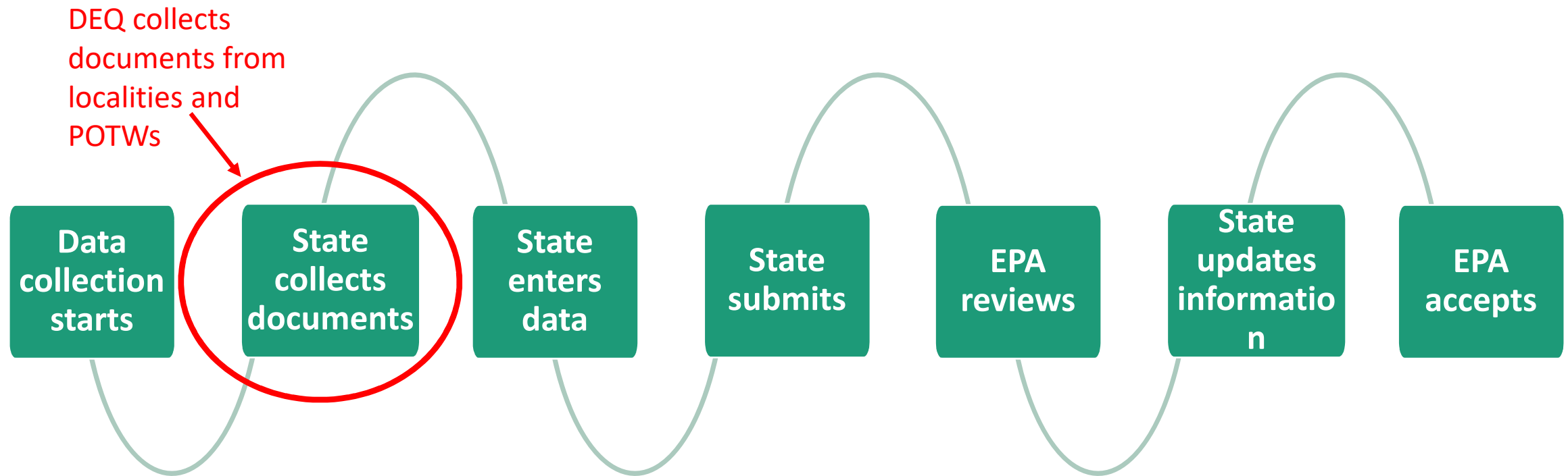
Prioritization – What is our focus?

- Wastewater information can be collected once and used for both the CWNS and CWNA
 - Information required for CWNS is more comprehensive
 - Remainder of presentation will focus on CWNS and utilize data for both
- Wastewater AND non point source needs are important, but
 - Primary focus – wastewater needs
 - Secondary focus – non point source needs
 - Remainder of presentation will focus on wastewater needs

Roles and Timeline – What do we need from you and when?

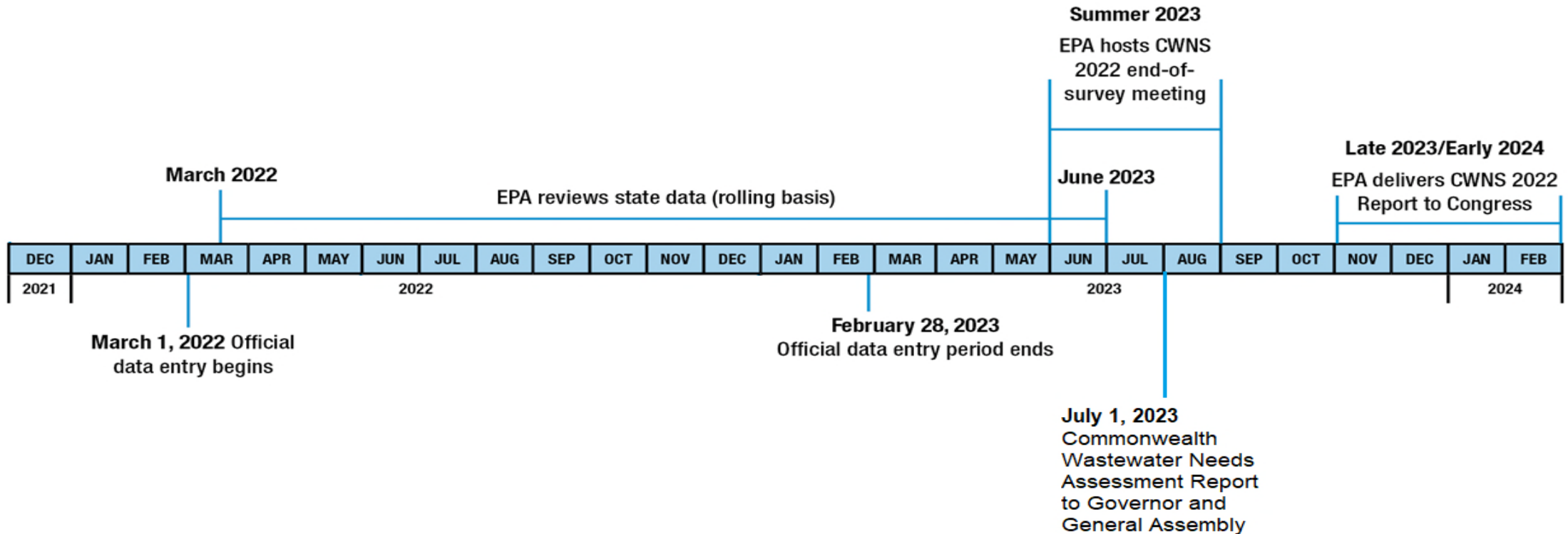
- Locality and POTW role:
 - Identify and gather needs information and documentation
- DEQ role:
 - Collect documents, enter data, and submit needs information to EPA
- EPA role:
 - Review data entered, accept and compile data, submit report to Congress

Roles and Timeline – What do we need from you and when?



The Data Entry Portal (DEP) is not public. Only state coordinators or identified contractors can enter data in the DEP. All needs go through the State Coordinator.

Roles and Timeline – What do we need from you and when?



Poll Question

- Did you participate in the 2012 Clean Watersheds Needs Survey (CWNS) or past needs assessments?

Eligibility and Documentation Parameters

What is considered a need? How to document it?

National CWSRF eligibility = eligible

- Project eligible for CWSRF? Report it!
 - Project = Need
 - No O&M
- Clean Water State Revolving Fund (CWSRF) nuances
 - Projects must have a water quality benefit
 - Publicly owned facilities only
 - Planning or engineering studies are eligible if there is "reasonable expectation" that it will result in a capital project

Eligibility and Documentation Parameters

What is considered a need? How to document it?

- A federal-state partnership that provides communities low-cost financing for a wide range of water quality infrastructure projects
- Eligibilities include:
 1. **POTWs (section 212)**
 2. 319 management programs
 3. 320 conservation and management plans
 4. Decentralized wastewater treatment systems
 5. Stormwater or subsurface drainage water
 6. **Reduce demand to POTWs through water conservation, efficiency, or reuse**
 7. Watershed projects (section 122)
 8. **Energy conservation at POTWs**
 9. **Wastewater, stormwater, or subsurface drainage water reuse (private + nonprofit)**
 10. **Increased security of POTWs**
 11. **Planning, developing, and financing projects**



Overview of Clean Water State Revolving Fund Eligibilities

May 2016

Eligibility and Documentation Parameters

What is considered a need? How to document it?

Need

- Unfunded project(s) and associated capital costs that address a water-quality or water-quality-related public health problem existing as of January 1, 2022, or expected to occur within the next 20 years.

Unfunded

- Not started construction
- No external funding, i.e., a part of (closed) loan or (executed) grant agreement

Eligibility and Documentation Parameters

What is considered a need? How to document it?

Documentation

- Reported needs (both project and cost) must be documented
 - Such as CIPs and LTCPs

Survey Period

- Must not have begun construction before January 1, 2022 and be completed by December 31, 2041

Poll Question

Which of these would make a project ineligible from being reported as a need?

- Project hadn't started construction as of January 1, 2022
- Project addresses a water quality problem
- Project is funded by a VCWRLF loan that has closed
- Project has a CIP that documents the need for it

Eligibility and Documentation Parameters

- 1 Water quality problem
- 2 Location
- 3 Project description
- 4 Project cost
- 5 Source of the cost
- 6 Current documentation

Eligibility and Documentation Parameters

Commonly Used Documents

Document Type
CWSRF Loan Final Applications
Non-CWSRF Governmental Loan and Grant Application Examples: EPA's WIFIA loans, DEQ's WQIF grants, and HUD's Community Development Block Grant
Capital Improvement Plan or Master Plan
Facility Plan or Preliminary Engineering Report
Approved CSO Long-Term Control Plan/Annual Report
Draft CSO Long-Term Control Plan*
Sewer System Evaluation Documents*
Engineer's Study*
Local Comprehensive Water and Sewer Plan*

Documentation must be recent, which means having been produced within the last six years (January 1, 2016 or earlier).

Certification Statement to certify eligibility if documentation is older.

*indicates the documentation may not fully support needs meaning additional documentation will be required

Eligibility and Documentation Parameters PER Example

PREPARED BY

THE LANE GROUP

310 WEST VALLEY STREET
ABINGDON, VIRGINIA 24210

JUNE 2019

REVISED JULY 2019



- 1 Water quality problem
- 2 Location
- 3 Project description
- 4 Project cost
- 5 Source of the cost
- 6 Current documentation

Eligibility and Documentation Parameters

PER Example

1

Water quality problem

BACKGROUND INFORMATION

This Preliminary Engineering Report has been prepared by The Lane Group for the BVU Authority (BVUA) in order to evaluate alternatives and make recommendations for construction of a sanitary sewer flow equalization basin within the Beaver Creek sewershed.

BVUA has entered into a Consent Order with the Virginia Department of Environmental Quality (DEQ) to address sanitary sewer overflows (SSO's) within the sewer system. As outlined in the Consent Order, one of the most frequent overflow locations is at a manhole near the intersection of Fairview Street and Vermont Avenue. During heavy rainfall events, the sewer system has experienced numerous overflows at that location. This manhole is located on BVUA's 42" Beaver Creek sewer interceptor.

Eligibility and Documentation Parameters

PER Example

Therefore, the selected approach is to complete I/I reduction repair projects upstream of the overflow point to help reduce flows and construct a flow equalization basin on the Beaver Creek interceptor.

A number of potential site locations were considered for the flow equalization basin. The preferred location was determined to be Site 2, located approximately 1,600 LF downstream of convergence manhole BC-1570. The cost for development of a 2.0 MG flow equalization facility at that location was estimated to be \$7,294,000. With respect to the PER findings and conclusions reached, the following recommendations are made to BVUA:

- 2 Location
- 3 Project description
- 4 Project cost

Poll Question

Which of these is not required for documenting a need?

- Project Location
- Project Description
- Project's Engineering Contractor
- Project Cost
- Source of Project Cost

Eligibility and Documentation Parameters



Wastewater Cost Estimation Tools

- Use for needs without documented costs
- Available for treatment works, collection, & CSO
- Limits on the size of need
- Must provide inputs to use tools

Eligibility and Documentation Parameters

Cost Estimation Tools

Tool	Input
Wastewater Treatment	Capacity (MGD)
Wastewater Conveyance	Pipe: total project length (ft) Pump station capacity (MGD)
CSO Storage	Total storage volume (MG)

Tools available for 'typical' project types within 'typical' project size ranges

Next Steps...

- Facilities will gather documentation that supports needs to provide to DEQ.
- DEQ will contact you to gather the needs information and documentation and submit it to EPA.

Questions?

Contact Lauren Linville and Matthew Link

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- matthew.link@deq.virginia.gov

<https://www.deq.virginia.gov/water/clean-water-financing>